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Fax Cover Sheet

Date: 30 Mar 2006

| | |
|---|---------------------------------------|
| To: Janae | From: Tekchand Saidha |
| Application/Control Number: 10/670,009 | Art Unit: 1652 |
| Fax No.: (515) 288 1338 | Phone No.: (571) 272 0940 |
| Voice No.: | Return Fax No.: (703) 872-9306 |
| Re: | CC: |
| <input type="checkbox"/> Urgent <input type="checkbox"/> For Review <input type="checkbox"/> For Comment <input type="checkbox"/> For Reply <input checked="" type="checkbox"/> Per Your Request | |

Comments:

Sequence homology Summary results For SEQ ID NO: 1 & 5.

Note-

US Patent 6,350,935 (FaEx1, SEQ ID NO: 4), strawberry expansin is 48.9% identical to Applicants' SEQ ID NO: 5. Correction : Office Action, page 7, Accession No. T13320 should read AAT13320 and is Applicants' SEQ ID NO: 1, and Accession No. V68447 should read AAV68447.

Number of pages 3 including this page

STATEMENT OF CONFIDENTIALITY

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Tue Oct 15 18:05:20 2002

us-09-896-301-1.rng

Page 1

GenCore version 5.1.3
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OM nucleic - nucleic search, using SW model

Run on: October 13, 2002, 18:25:39 ; Search time 244 Seconds
(without alignments)
4791.880 Million cell updates/sec

Title: US-09-896-301-1

Perfect score: 681
Sequence: 1 gactacggtggtggtgagag.....cctatgaagcctcaattc 681

Scoring table: IDENTITY-NWC
Gapop 10.0, Capext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database:

1: N.Genseq.032802.*
2: /SIDSI/gcgdata/genseq/genseqn-emb1/NA1980.DAT.*
3: /SIDSI/gcgdata/genseq/genseqn-emb1/NA1981.DAT.*
4: /SIDSI/gcgdata/genseq/genseqn-emb1/NA1982.DAT.*
5: /SIDSI/gcgdata/genseq/genseqn-emb1/NA1983.DAT.*
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22: /SIDSI/gcgdata/genseq/genseqn-emb1/NA2000.DAT.*
23: /SIDSI/gcgdata/genseq/genseqn-emb1/NA2001A.DAT.*
24: /SIDSI/gcgdata/genseq/genseqn-emb1/NA2001B.DAT.*
25: /SIDSI/gcgdata/genseq/genseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length DB | ID | Description |
|------------|-------|-------------|-----------|----|-------------|
| 1 | 681 | 100.0 | 681 | 17 | AA13320 |
| 2 | 392.8 | 57.7 | 1015 | 21 | AA13320 |
| 3 | 392.8 | 57.7 | 1015 | 21 | AA13320 |
| 4 | 377.6 | 55.4 | 780 | 21 | AA13320 |
| 5 | 377.6 | 55.4 | 1198 | 21 | AA13320 |
| 6 | 377.6 | 55.4 | 1233 | 21 | AA13320 |
| 7 | 366.8 | 53.8 | 1236 | 21 | AA13320 |
| 8 | 358.6 | 52.7 | 1324 | 21 | AA13320 |
| 9 | 353.8 | 52.0 | 1336 | 21 | AA13320 |

| | | | | | | |
|----|-------|------|------|----|---------|----------------------|
| 10 | 351.4 | 51.6 | 1366 | 21 | AA13320 | Arabidopsis thaliana |
| 11 | 350.2 | 51.4 | 1312 | 21 | AA13320 | Arabidopsis thaliana |
| 12 | 341.6 | 50.2 | 1319 | 21 | AA13320 | Arabidopsis thaliana |
| 13 | 338.2 | 49.7 | 1167 | 22 | AA13320 | Arabidopsis thaliana |
| 14 | 338.2 | 49.6 | 1205 | 21 | AA13320 | Arabidopsis thaliana |
| 15 | 331.6 | 48.7 | 1201 | 21 | AA13320 | Arabidopsis thaliana |
| 16 | 316.6 | 46.5 | 1236 | 21 | AA13320 | Arabidopsis thaliana |
| 17 | 313.6 | 46.0 | 488 | 21 | AA13320 | Arabidopsis thaliana |
| 18 | 313.4 | 45.9 | 824 | 21 | AA13320 | Arabidopsis thaliana |
| 19 | 312.8 | 45.9 | 1233 | 22 | AA13320 | Arabidopsis thaliana |
| 20 | 301.2 | 44.2 | 1037 | 21 | AA13320 | Arabidopsis thaliana |
| 21 | 299.4 | 44.0 | 1293 | 21 | AA13320 | Arabidopsis thaliana |
| 22 | 296.2 | 43.5 | 1291 | 21 | AA13320 | Arabidopsis thaliana |
| 23 | 287.6 | 42.2 | 475 | 21 | AA13320 | Arabidopsis thaliana |
| 24 | 276.4 | 40.6 | 537 | 20 | AA13320 | Arabidopsis thaliana |
| 25 | 262.2 | 38.5 | 1103 | 22 | AA13320 | Arabidopsis thaliana |
| 26 | 259.4 | 38.1 | 727 | 17 | AA13320 | Arabidopsis thaliana |
| 27 | 259.4 | 38.1 | 727 | 17 | AA13320 | Arabidopsis thaliana |
| 28 | 259.4 | 38.1 | 727 | 18 | AA13320 | Arabidopsis thaliana |
| 29 | 259.4 | 38.1 | 727 | 18 | AA13320 | Arabidopsis thaliana |
| 30 | 259.4 | 38.1 | 727 | 18 | AA13320 | Arabidopsis thaliana |
| 31 | 253.4 | 37.2 | 2415 | 17 | AA13320 | Arabidopsis thaliana |
| 32 | 253.4 | 37.2 | 2415 | 17 | AA13320 | Arabidopsis thaliana |
| 33 | 253.4 | 37.2 | 2415 | 18 | AA13320 | Arabidopsis thaliana |
| 34 | 253.4 | 37.2 | 2415 | 18 | AA13320 | Arabidopsis thaliana |
| 35 | 250 | 36.7 | 702 | 20 | AA13320 | Arabidopsis thaliana |
| 36 | 242.8 | 35.7 | 448 | 21 | AA13320 | Arabidopsis thaliana |
| 37 | 242.8 | 35.7 | 501 | 20 | AA13320 | Arabidopsis thaliana |
| 38 | 222.2 | 32.6 | 1132 | 21 | AA13320 | Arabidopsis thaliana |
| 39 | 218.2 | 32.0 | 695 | 21 | AA13320 | Arabidopsis thaliana |
| 40 | 208.8 | 30.7 | 1141 | 21 | AA13320 | Arabidopsis thaliana |
| 41 | 204.6 | 30.0 | 437 | 21 | AA13320 | Arabidopsis thaliana |
| 42 | 204.6 | 30.0 | 437 | 21 | AA13320 | Arabidopsis thaliana |
| 43 | 177 | 26.0 | 1137 | 21 | AA13320 | Arabidopsis thaliana |
| 44 | 177 | 26.0 | 1143 | 21 | AA13320 | Arabidopsis thaliana |
| 45 | 163.2 | 24.0 | 494 | 21 | AA13320 | Arabidopsis thaliana |

ALIGNMENTS

RESULT: 1
ID: AA13320
standard: DNA: 681 BP.
AC: AA13320:
DT: 08-JUL-1996 (first entry)
DE: Cucurbit expansin-29 cDNA.
KW: Expansin-29: plant cell wall; cellulose; paper recycling; de-linking;
KW: polysaccharide; cucumber; ss.
OS: Cucumis sativus var. Burpee Pickler.
PN: AU9540262-A.
PD: 04-APR-1996.
PE: 12-MAY-1994: 94AU-0068320.
PR: 12-MAY-1995: 95US-0440517.
PR: 12-MAY-1993: 93US-0060944.
PT: (PENN-) PENN STATE RES FOUND.
PT: Cosgrove DJ, McQueen-Mason S;
PT: WPI: 1996-201150/21.
PT: P-PSDB: AAR94527.
PT: Expansin proteins which alter the mechanical strength of

Db 121 AFRVPCEKGGGIRRTINGNPNPYFDLVLT